Appendix H Project Testing Responsibility Matrix

Appendix H

Project Testing Responsibility Matrix

GEM PROJECT TESTING RESPONSIBILITY MATRIX									
	Safety Cat				Responsible		GEM Assigned		
Test Area	CG	SS	LSC	Responsible for Test Acceptance	for Quality Assurance	Supporting Design Engineering	System Engineer	Related SME(s)	Comments
CONSTRUCTION COMPLETION FESTING									
Fire Protection									
Water Mist	X			C. Reay (1), E. Gosswiller	NA	J. Jensen or L. Guillen	E. Keating	K. Wheeler, J. Call	
RCS Dry Pipe	X			C. Reay (1), E. Gosswiller	NA	J. Jensen or L. Guillen	E. Keating	K. Wheeler, J. Call	
WES Dry Pipe	X			C. Reay (1), E. Gosswiller	NA	J. Jensen or L. Guillen	E. Keating	K. Wheeler, J. Call	
Manual Deluge	X			C. Reay (1), E. Gosswiller	NA	J. Jensen or L. Guillen	E. Keating	K. Wheeler, J. Call	
Stationary Fire Pump	X			C. Reay (1), E. Gosswiller	NA	J. Jensen or L. Guillen	E. Keating	K. Wheeler, J. Call	
Mechanical									
Plant Air	X			C. Reay (1)	NA	L. Guillen	E. Keating		
Breathing Air	X			C. Reay (1)	NA	L. Guillen	E. Keating	B. Perkes	
Dust Suppression System	X			C. Reay (1)	NA	L. Guillen / R. VanVoast	E. Keating		
Heating and Ventilation (CG portions)	X			C. Reay (1)	NA	M. Pope	E. Keating		
Heating and Ventilation (SS, LSC portions)		X	X	D. Johnson	C. Reay	M. Pope	E. Keating		
DOP Filter Testing	X			K. Poole	NA	M. Pope	E. Keating		
Heating and Ventilation Testing & Balance (TAB)		X		D. Johnson	C. Reay	M. Pope	E. Keating		
Excavator System (CG portions)	X			C. Reay (1)	NA	B. Grover	S. Smith		
Excavator System (SS portions)		X		D. Johnson	C. Reay	B. Grover	S. Smith		
PGS		X		D. Johnson	C. Reay	R. Carpenedo	P. Pinson		
Drum Loadout Enclosure Leak Testing	X			D. Johnson, R. Horne	NA	B. Preussner	C. Griffin		
RCS Bubble Testing		X		D. Johnson	D. Martin	B. Preussner	E. Keating		
WES Leak Testing	X			C. Reay (1)	NA	B. Helm	E. Keating		

GEM PROJECT TES FING RESPONSIBILITY MATRIX									
Test Area	CG	afety (Cat	Responsible for Test Acceptance	Responsible for Quality Assurance	Supporting Design Engineering	GEM Assigned System Engineer	Related SME(s)	Comments
Electrical/I&C									
Switches. Receutacles. and Wall Plates	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Electrical Raceways	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Cable, Wire, & Misc.	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Motor Starters	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Panelboards	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Grounding	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Transformers, Genl Lighting, & Distribution	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
Lighting	X			D. Johnson	D. Johnson	J. Duggan	E. Keating		
CCTV	X			D. Johnson	D. Johnson	B. Johnson	C. Griffin		
Emissions Monitoring	X			D. Johnson	D. Johnson	B. Johnson	C. Griffin	P. Ritter	
CAS		X		D. Johnson	M. Redden	T. Hipp	C. Griffin	S. Holaday	
Fire Alarm System	X			D. Johnson, E. Gosswiller	D. Johnson	J. Jensen or L. Guillen	E. Keating	K. Wheeler, J. Call	
CO Detection	X			D. Johnson. E. Gosswiller	D. Johnson	J. Jensen or L. Guillen	E. Keating	B. Perkes	
Monitoring & Controls	X			D. Johnson	D. Johnson	G. Preslar	E. Keating		
SYSTEM OPERABILITY TESTING									
Excavator System (general)	X	X		B. Burt, S. Smith	B. Chesnovar	B. Grover	S. Smith		
Excavator Noise Testing	X			E. Keating	NA	B. Grover	E. Keating	B. Perkes	
Drum Assay System			X	B. Burt, S. Roesener	B. Chesnovar	S. Roesener	S. Roesener		
FMM Svstem	X			SCCB - D. Akers, R. Hendrickson, T. Hipp, D. Conley, as well as B. Burt	R. Hendrickson	D. Akers, D. Scates	P. Pinson		
Excavator Access Platform Checkout	X			B. Burt	B. Chesnovar	T. Clark	S. Smith		
INTEGRATED TESTING									
PGS Integrated Testing	X	X	X	B. Burt, P. Pinson	B. Chesnovar	R. Carpenedo	P. Pinson		
General Support Systems	X	X		B. Burt.	B. Chesnovar	L. Guillen	E. Keatine		
Waste Retrieval	X	X		B. Burt,	B. Chesnovar	B. Grover	S. Smith		
Waste Packaging Soil Waste	X	X		B. Burt,	B. Chesnovar	R. Carpenedo	P. Pinson		
Waste Packaging Intact Drum Waste	X	X		B. Burt,	B. Chesnovar	R. Carpenedo	P. Pinson		

GEM PROJECT TESTING RESPONSIBILITY MATRIX									
	S	afety	Cat		Responsible		GEM Assigned		
Test Area	CG	SS	LSC	Responsible for Test Acceptance	for Quality Assurance	Supporting Design Engineering	System Engineer	Related SME(s)	Comments
Waste Packaging Deteriorated Drum Waste	X	X		B. Burt,	B. Chesnovar	R. Carpenedo	P. Pinson		
Waste Sample Handling	X	X		B. Burt,	B. Chesnovar	R. Carpenedo	C. Griffin/P. Pinson		
Drum Changeout	X	Х		B. Burt,	B. Chesnovar	R. Carpenedo	C. Griffin		
Restore PGS (Cleaning)	X	X		B. Burt,	B. Chesnovar	R. Carpenedo	P. Pinson		
Waste Drum Transportation & Storage	X	Х		B. Burt,	B. Chesnovar	R. Carpenedo	C. Griffin		
Return Drum Operations	X	X		B. Burt,	B. Chesnovar	R. Carpenedo	C. Griffin/P. Pinson		
Maintenance Operations									
Gloveport Exchange	X	Х		B. Burt,	B. Chesnovar	R. Carpenedo	P. Pinson		
HEPA Filter Exchange	X	X		B. Burt,	B. Chesnovar	L. Guillen	E. Keating		

EXPLANATORY NOTES: (1) Construction Field Engineering Is Responsible For Acceptance Of Cc Tests For Cg Systems: However,

In Some Cases Field Engineering Uses Quality Inspection Resources To Perform This Function

March 4, 2003

TESTING RESPONSIBILITY MATRIX, Rev. 0.xls

Appendix I Project Testing Responsibilities Summary

Appendix I

Project Testing Responsibilities Summary

OU 7-10 GEM PROJECT TESTING RESPONSIBILITIES

REFERENCES

- GEM Project Testing Responsibility Matrix, Rev. B
- GEM Project Execution Plan, draft Revision 1

PURPOSE

The reference testing responsibility matrix lists the following:

- Planned construction completion (CC) tests
- Planned system operability (SO) tests
- Planned integrated tests (ITs)
- Individuals responsible for test acceptances
- Individuals responsible for quality inspection
- Supporting design engineer(s)
- GEM assigned system engineer
- Related subject matter expert(s) or SMEs

The responsibilities provided below are understood to be consistent with the Project Execution Plan (PEP) and with INEEL procedures as referenced in the PEP. This document provides supplemental detail for purposes of accomplishing successful project execution during the testing phase.

RESPONSIBILITIES

Project Management (M. Pratt, D. Wilkins)

- Update and maintain this testing responsibilities list
- Update and maintain the testing responsibilities matrix (Reference)
- Communicate overall responsibilities to the project team and others
- Manage overall project efforts in the area of testing

Project Planning & Controls (A. Orihuela, R. Daniels)

- Prepare and maintainthe project testing schedule
- identify schedule issues

Operations Manager/Nuclear Facifity Manager (M. Dicken)

Review and concur with defined responsibilities

Project Preoperational Testing Supervisor (B. Burt)

- Provide input/changes to this list, and to the testing responsibilities matrix
- Manage test engineer performance in accordance with assigned responsibilities
- Obtain design engineer support and assistance as needed, working through the Project Engineer

Project Preoperational Testing Test Engineers (J. Jefimoff, M. Owens)

- Prepare SO and IT test plans, including acceptance criteria
- Perform SO and IT testing, utilizing facility operators to accomplish the testing
- Review and record test data, and (working with the assigned System Engineer) determine whether test acceptance criteria were met
- Sign completed test records

March 4.2003

Page 1 df 3

Testing Responsibilities, Rev. 0

OU 7-10 GEM PROJECT TESTING RESPONSIBILITIES

 Submit completed test records to the Project Administrator or to the Vendor Data System, as agreed, for records ingress and retention

Project Quality Assurance Manager (J. Stone)

- Provide input/changes to this list
- Manage Quality Assurance and Quality Inspection performance in accordance with assigned responsibilities

Project Construction Manager (D. Behrens)

- Manage field engineering and construction quality inspection efforts in accordance with assigned responsibilities
- Provide input/changes to this list

Project Field Engineer (D. Johnson)

- Issue the weekly testing schedule for CC, SO, and IT tests, with distribution to include all individuals on the test responsibility matrix for the planned tests
- Obtain design engineer support and assistance as needed, working through the Project Engineer
- Determine whether construction subcontractor CC test acceptance criteria were met
- Sign completed test records
- Submit completed test records to the Project Administrator or to the Vendor Data System, as agreed, for records ingress and retention

Quality Assurance (various)

- Review test plans and procedures for accuracy and completeness
- Verify that testing is done in accordance with approved test plans and procedures
- Review test results, and verify that test acceptance criteria have been met
- Sign completed test records, where required

Project Engineer (S. Davies, K. Shropshire)

- Provide input/changes to this list
- Manage design engineers providing support to CC, SO, and IT testing
- Assist PM in identifying SMEs for the planned testing

Design Engineers (various)

Provide support on an as-needed basis to construction and pre-operational testing

Project Operations Engineering Supervisor (D. Conley)

- Provide input/changes to this list
- Manage System Engineer performance in accordance with assigned responsibilities
- Assist PM in identifying SMEs for the planned testing

Operations Engineering Assigned System Engineers (various)

- Observe CC tests (Note: it is up to the System Engineer to review the weekly test schedule and coordinate with Field Engineering or Preoperational Testing regarding their desired presence at the CC tests.)
- Working with the Preoperational Testing Test Engineer, review SO and IT test data, and determine whether test acceptance criteria were met
- Sign completed test records for SO and IT tests

March 4, 2003

Page 2 of 3

Testing Responsibilities, Rev. 0

OU 7-10 GEM PROJECT TESTING RESPONSIBILITIES

Related SMEs (various)

 Observe CC, SO, and IT tests (Note: it is up to the SME to review the weekly test schedule and coordinate with Field Engineering or Preoperational Testing regarding their desired presence at the CC, SO, and IT tests.

Appendix J Inspection and Project Transfer Form 432.04 for Partial Turnover

Appendix J

Inspection and Project Transfer Form 432.04 for Partial Turnover

432.04

INSPECTION AND PROJECT TRANSFER

Page 1 of 5

02/20/2003 Rev. 07	MOPEO HON AND PROCEST PRACTO	The E.S.	-
Nev. Or			
		☐ Final 021052 Project Number	or
		OK 100K	34
PROJECT TITLE:	OU 7-10 Glovebox Excavator Method Project		
On this date an insp	pection was made of the subject project or portion thereof as described	below:	
BBWI force Method pre	is for the site development work performed by Chung Associates, for the account, and for the 23 systems and areas in the Mechanical/Electric oject performed by Arrington Construction Co. have taken place beginns are documented in the project deficiency status reports (PDSRs), while	al/Facility package of the Glovebox Excavations and 2002. The results of these	
The following system	ms, equipment, and facilities are included within the scope of this trans	er:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FIRE PRO	TECTION		
Water Mist			
RCS Dry F WES Dry I			
Manual De	eluge		
Stationary Fire Alarm	Fire Pump System		
MECHANI	CAL		
Plant Air Breathing	Air		
	oression System		
	nd Vent. (CG portions)		
	nd Vent. (SS, LSC portions) System (CG portions)		
Excavator	System (SS portions)		
	g Glovebox Systems dout Enclosures		
ELECTRIC	CAL/I&C vitches, Light, Heat		
CCTV	Mondo, Egin, Hodi		
	Monitoring		
CAS CO Detect	tion		
Monitoring	a & Controls		
Fissile Ma Drum Assi	terial Monitoring		
	S AND FACILITY nd Facility Labelling		
Weather E			
Floor Strui			
Retrievai (Confinement Structure		
	PECIFIED CONTRACT WORK SCOPE d in the turnover packages)		
as constructed by	Chung Associates/Arrington Constructon Co	./BBWI Force Account	
	fName of Subcontractor or Direct		
	8388/13233/NA	20083/20511/NA	
	(Subcontract No.)	(Funding No./Req. No.)	***************************************

Dags 2 of 5

INSPECTION AND PROJECT TRANSFER

432.04 02/20/2003 Rev. 07

The project (or portion of the project) was found by the Project Team (signatures as shown below) to be complete in accordance with the contractual documents except for such deficiencies specifically noted below. The project (or portion of the project) is ready for testing and start-up activities.

Deficiencies (attach list if necessary):

The results of these walkdowns are documented in the project deficiency status reports (PDSRs), which are contained in the project turnover binders.

Comments:

Inspection and project transfer are being performed in accordance with PLN-1159, Rev. 0, "Facility Turnover and Acceptance Plan for the Glovebox Excavator Method Project." This plan was prepared in accordance with MCP-2869, "Project Turnover and Acceptance."

PROJECT TEAM APPROVAL Ron Staymates/Darin Johnson Quality Engineer/Field Engineer Print/Type Name Mike Pratt Project Manager Print/Type Name Signature John Arrington Field Superintendent (Sub)Contractor Print/Type Name ld Superintendent (Sub)Contrac Dave Behrens anager Representative Construction Manager Representative Print/Type Name Art Clemons Safety Representative Print/Type Name Safety Representation Signature Alan French Project Procurement Manager Print/Type Name & Job Title Signature

INSPECTION AND PROJECT TRANSFER

Page 3 of 5

TRANSFER APPROVAL

WORK COMPLETION

CHE LENGTHAN BUTTON	ACTOR/DIRECT	TELEPHONE

1. Chung Work Scope: See attached Inspection and Project Transfer form 432.04 for the Chung scope of work, prepared at the completion of their work, in September 2002.)

2. Arrington Work Scope		
I certify on behalf of Arrington Construction Co	u.	
	Section 1001, that our personnel have accomplished the contract	twork and to the heet
	nolished in accordance with the contractual documents, includir	
* * * * * * * * * * * * * * * * * * * *	ipilatica in accordance with the contracted documents, including	ig an approved
changes.		
	. ^	
		x 2
		Elilas
John Arrington	John J Jumeson	3/1/03
Subcontractor Authorized Representative	Subconfractor Authorized Representative Signature	* Date
Print/Type Name	O Signature O	
I carlify that the administration of the contract for the	above named project (or portion of the project) is, to the best of	of my knowledge
		n my knowledge,
complete to the extent required for this Project Tran	sier and/or close out or the contract.	
	,	
	1	
	William 1 The function	14-29-03
Michael Drake/Ross Langseth	Myster 11001	
Procurement Agent / Construction Manager Representative	Procurement Agent / Construction Manager Representative	Date
Print/Type Name	Signature	
3. BBWI Force Account Work Scope		
J. DOTT FORGE ACCOUNT FOR DOOPS		
I made as habit of DOME Direct Discours Assessed	at the at a company was the company and the company of the company	an mad in the track of
	nt that our personnel have accomplished the specified work sco	
my knowledge, the work was performed in accordan	nce with the specifications and/or drawings, including all approv	ed changes.
		14 - 4 4 7
Ross Langseth		4-29-03
Subcontract Technical Representative	Subcontract Technical Regresentative	Date
Print/Type Name	Signature	

INTERIM DISTRIBUTION

Signatories, Land/Facility Operations (Paul R. Snyder), and Project File (Melissa Voyles). For capital-funded projects include Property Accounting (Nancy K. Johnson) and Property Management (Carla Beckman)

PARTIAL PROJECT TRANSFER TO FACILITY MANAGER

I certify that our personnel have monitored the design, fabrication, and installation of the project (or portion of the project) and, to the best of my knowledge, the work has been completed in accordance with the plans and technical specifications, including all approved changes. The project (or portion of the project) is hereby ready to be turned over to the Facility Managerfor system operational testing and other activities in preparation for final project transfer.

d certify completion of final test Acceptance Pian The project Project Manag Print/Type Nan	(or portion of the	e project) is ł	nereby ready to be			
Acceptance Pian The project Project Manage	(or portion of the		nereby ready to be	turned over to tl		gerfor acceptance
	I TOI LIX					
FINAL PROJECT TRA			CV	of Ine	7.7	5-27-03
** S	se Amaches	e-m41L	TM DICKEN 70	MB PRATI /	DS BEHROUS,	5/29/03 03:47 PM 5-29-03
Facility Manager or Rep	resentative			ager or Representati Signature		Date
Mike Dicke		1.3/02	Ou	Die	*	5-13-03
* Ji	2/03 07:15	PM AND	T.M. DIGGOD TO OUT-10 GEY	CONSTRUCTION	Turnboler Co	MFGULFTON
The RWMC the project (or portion of the pro	niect) and for co					ntenance and custody of
Printrrype Nar				ject Manager Signature		/ Date
	er		COMPAGNA -	ROLL	*******	May 5, 2003
Mike Prat Project Manag				2	and the second s	W. 62003

FINAL DISTRIBUTION

 $Signatories, plus\ DOE-ID\ Project\ Manager,\ Project\ File,\ and\ Land/Facility\ Operations.\ For\ capital-funded\ projects,\ include\ Property\ Accounting,\ Property\ Management,\ and\ Financial\ Construction\ Coordinator.$

22-0361 183 LMIT

432.04 02/20/2003 Rev. 07

INSPECTION AND PROJECT TRANSFER

Page 5 of 5

INSTRUCTIONS

GENERAL

In accordance with MCP-2869, Project Turnover and Acceptance, this form documents the final inspection between the subcontractor/direct hire and the Facility Manager, and effects partial and final transfers of the project (or portion of the project) to the Facility Manager.

PAGE 1: INSPECTION

- In general, a partial project transfer occurs when the contract or a specific and definable portion of the project has been completed
 and is to be turned over to the Facility Manager for custody and maintenance. Items such as SO Testing, Life Safety System tie-ins,
 terminations, and final project documentation still remain to be accomplished.
- 2. The description needs to be detailed and clear on what is being transferred (e.g., reference drawing list, equipment list).
- 3. Deficiencies should only be allowed for partial transfers. If possible, include planned completion date for each deficiency.
- Quality Engineer signs for quality significant projects, Field Engineer signs for Consumer Grade projects, or both sign for projects that are combined activities.

PAGE 2: PARTIAL PROJECT TRANSFER APPROVAL

The second page (the "Work Completion" and "Partial Project Transfer to Facility Manager" sections) is to be filled out for partial
project transfer of the project (or portion of the project) from the subcontractor/direct hire to the Facility Manager after review by the
Project Turnover Review Committee demonstrates that the project (or portion of the project) is safe and ready for occupancy and SO
Testing activities.

PAGE 3: FINAL PROJECT TRANSFER APPROVAL

- The third page is to be filled out after final testing (such as system operational testing), completion of all remaining project activities, and review by the Project Turnover Review Committee demonstrate that the project (or portion of the project) is ready for acceptance by the Facility Manager/user organization.
- 2. Use of this form does not constitute start-up approval of the project or portion thereof.

432.04 06/01/2000 Rev. 05

INSPECTION AND PROJECT TRANSFER

Page 1 of 3

				☐ Partial ⊠ Final
TRANSFER TO	PROJECT			
PROJECT TITLE:	OU 7-10 Glovebox Excava	ator Method Project-Site Developmen	in the second control of the second control	
On this date an inspe	ection was made of the subj	ject project or portion thereof as descr	be below.	
Site Development Po	ortion of the Glovebox Exca	vator Project	Samuel debitions communication and the above Selection for the second second	
agovernoji ingerekli vizini kanari, ini and nod Medikandi kanari aga enternisti 3		Chung & Associa		ntikanya manya papagapahatania tamininin masi masi ajadan pilohili digi (majalan digi pangalant m
as constructed by		(Name of Subcontract	for)	y dan selah ganggang saman
		8388		388
*		(Subcontract No.)	(Funding I	No./Req. No.)
The project was foun except for such defic	ld by the Project Team (signification of the design of the	natures as shown below) to be comple elow. The project is ready for testing	ite in accordance with the c and start-up activities.	ontractual documents
Deficiencies (attach i See Attached Punch	ist if necessary): list			
Comments:				
		PROJECT TEAM APPROV	AL .	
		PERTON	Econ	1. /
KON STAY	MATES uality Engineer	FOR P STA		9/26/02 Date
-	rint/Type Name	NA - L D_ H	1246pm	9-26-02
P	Ya. + + roject Manager rint/Type Name	Project Man		Date
		Ran Know	To do K	8-19-02
Field Superi	nterident (Sub)Contractor	Field Superintendent (Signatup		Date
Koss L	Langseth	P		9-26-02
Construction	Manager Representative rint/Type Name	Construction Manages.	Representative	Date
HET CI	EMONS	(for Clen	un	8-1-02
	ly Representative rint/Type Name	Safety Represe Signatur		Date
Pind/T\	Other Ope Name & Job Title	Other Signaturi	enno en annaguesta antique antique de manda de la companya del companya de la companya de la companya del companya de la companya del la companya de la comp	Dale

INSPECTION AND PROJECT TRANSFER

Page 2 of 3

TRANSFER APPROVAL

CONSTRUCTION/CONTRACT COMPLETION

CONSTRUCTION SUBCONTRACTOR:		
i certify on behalf of Subject to the penalties provided under 18 95 of my knowledge, the work was performed or changes.	ASSOC. S.C., Section 1001, that our personnel have accomplished the accomplished in accordance with the contractual document	ne contract work and, to the best s, including all approved
2 . 2	2	0.49
Row Kruger Subcontractor Authorized Representative Print/Type Name	Subcontractor Authorized Representative Signature	B-/7-02
	for the above named project is, to the best of my knowledge out of the contract.	e, complete to the extent 9-26-02
Procurement Agent Print/Type Name	Procurement Agent Signature	Date
e earn thin a source.	, and a second	
INTERIM DISTRIBUTION		
ignatories, Land/Facility Operations, and Pro Janagement.	ject File. For capital-funded projects include Property Acco	unting and Property
TRANSFER TO FACILITY ORGA	NIZATION	
I certify that our personnel have monitored the work has been completed in accordance with hereby accepted for the Government.	design, fabrication, and construction of the project and, to the plans and technical specifications, including all approved	he best of my knowledge, the i changes. The project is
Project Manager Print/Type Name	Project Manager Signature	Date
PHRE Lype Ivalilo	Signature	
The custody of the project.	_Facility Organization hereby accepts total responsibility fo	r the maintenance and
Facility Organization Representative	Facility Organization Representative	
Print/Type Name	Signature	Date

FINAL DISTRIBUTION

Signatories, plus DOE-ID Project Manager, Project File, and Land/Facility Operations. For capital-funded projects, include Property Accounting, Property Management, and Financial Construction Coordinator.

526-6852

P.1

Project Title:

OU7-10 Glovebox Excavator Method Project

Site Development

Document Type:

Construction Specification

Project Number: 021052

SPC Number:

352, Revision 1

SECTION 01005-SUMMARY OF WORK

M, Ke Pratt

3 PART 1--GENERAL 4

SUMMARY:

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The Subcontractor shall furnish plant, labor, material, equipment, and supplies (except Government-furnished materials and equipment) and perform work and operations necessary to install the components of the Site Development phase of the OU7-10 Glovebox Excavator Method Project, in accordance with the subcontract drawings and these specifications.

Work includes, but is not limited to:

Grading, leveling, excavation, and other earthwork. Construction of reinforced concrete slabs for the Fire Riser Building and grounding mat and a riprap valley drain adjacent to the Fire Riser Building. Installation of utilities to the new Fire Riser Building, within the Fire Riser Building and from the fire riser to the proposed process facility location (interior and exterior). Installation of all associated mechanical, piping, and electrical work.

REFERENCES:

The following documents, including others referenced therein, form part of this Section to the extent designated herein.

CODE OF FEDERAL REGULATIONS (CFR)

OSHA Occupational Safety and Health Standards 29 CFR 1910 OSHA Health and Safety Standards for Construction 29 CFR 1926

BECHTEL BWXT IDAHO, LLC (BBWI)

Subcontractor Requirements Manual

Unless otherwise specified, references in these specifications or on the subcontract drawings to other specifications, codes, standards or manuals which are part of these specifications, but not included herein, shall be the latest edition, including any amendments and revisions, in effect as of the date of this Specification.

SUMMARY OF WORK 01005-1 of 3

Thomas M Dicken

05/12/2003 07:15 PM

To: OU7-10 Ops Staff, OU7-10 Ops System Engineers, OU7-10 Ops. Foremen, RWMC SS, RWMC Records/Proc./Tech. Ed, OU7-10 ES&H

Support, RWMC Training cc: RWMC Staff, RWMC DOE

Fax to:.

Subject: WMF-671 Status

As the OU7-10 Operations and Nuclear Facility Manager I have signed limited acceptance of the WMF-671 facility for Partial Turnover to conduct SO and Integrated Testing (effective 0730 hours, Tuesday, May 13) as noted below:

- Except for work within gloveboxes #1, 2 or 3, all work control and approval shall be authorized via the RWMC and GEM Project Approved Plan of the Week/Plan of the Day. Performance of FMM SO Testing is considered separate from work within the respective glovebox and will thus be controlled by Operations.
- Ownership/responsibility for gloveboxes #1, 2 and 3 shall remain with Construction until completion of cracked window replacement and satisfactory leak testing, as applicable. Thereafter, ownership/responsibility of each glovebox will be transferred to me.
 - Work within gloveboxes #1, 2 or 3, including cracked window replacement and satisfactory leak testing, shall be authorized by Construction and performed under the respective PWO.

Attached is the Construction Turnover Configuration Status as of 1733 hours today. The status of systems needs to be recorded in the respective OOS, Equipment Status, and Temporary Equipment Status logs and on status boards.

Through approximately 1600 hours Thursday, May 15, access to WMF-671 will continue to be via the Construction Trailer using the Construction entrance, Guard Shack and the green Construction badges. Likewise, the emergency notification means using the Construction air horn will remain in effect through this same period. Thereafter, access will be via the gate adjacent to the SDA entrance. In addition, it will be necessary that a Supervisor or designee be present in WMF-671 and that person have an RWMC radio in their possession, since there are no speakers inside the facility, whenever work is being performed. The RWMC SS will thus be required to transmit radio messages to WMF-671 as they currently do to the SDA.

Until system and component alignment of the fire protection systems, including independent verification, has been completed, a qualified Fire Watch will be stationed in WMF-671.



OU 7-10 GEM, Turnover Config Mgmt Lis

T.M. (Mike) Dicken
Pit-9 GEM Operations Manager/Nuclear Facility Manager
Office 526-1085 Cell 520-1237 Pager 5076 Home 523-6530

	***********	Construction Turnover Configurat	ion Status		
#	Syste	m or Equipment	Turnover Status	Location	Responsible Party
1	Excay	ator			
1	1.01	Excavator (46.4 hours on meter)	Installed and ready for operation (Cab is locked)	WMF-671	Scott Smith
1		Fuel Tank (filled to between 1/4 & 1/2)	Tank will need to be filled by Ops.	on Excavator	Scott Smith
1	1.03		Cartridge has been removed, needs to be installed	In Excavator	Jim Call/Scott Smith
1	,,,,,		by Ops prior to start of operations	OLI MAN CHIMIN CONTRACTOR	#11.11 W 10.00 to 10.00 to 10.11.11.1
1	1.04	Spare Hydraulic Fluid	Stored in RWMC Warehouse	WMF-655	Scott Smith
l		Hydraulic Oil Test Kit	Stored in RWMC Warehouse	WMF-655	Scott Smith
l	1.06	Tires Removed From Excavator	Stored in Conex located at Construction Trailer area		Scott Smith
	1.07		Stored in Conex located at Construction Trailer area		Scott Smith
l		Front Rams removed from Excavator	Stored in Conex located at Construction Trailer area		Scott Smith
		Glass Removed From Cab	Stored in Conex located at Construction Trailer area		Scott Smith
	1.03	End Effectors:	Sibiled in Conex (scaled at Construction Trate) area	OW HOUSE INDA	ocoa oman
	1.10	16" Bucket	Staged in WMF-671	WMF-671	Scott Smith
	1.11	24" Bucket	Staged in WMF-671	WMF-671	Scott Smith
	1.12	Hydraulic Hammer	installed on Backhoe in WES	WMF-671	Scott Smith
	1.13	Jaw Bucket	Staged in WMF-671	WMF-671	Scott Smith
2		rotection (Water) Systems	A35	3454F 0274	Pr. O. B
i		Fire Piping	All valves in WMF-750 are closed	WMF-671	Jim Call
	4.02	WES Sprinkler Plping	Everything in ready status	WMF-671	Jim Call
		RCS Sprinkler Piping	Everything in ready status	WMF-671	Jim Call
	2.04	RCS Deluge Piping	Everything in ready status	WMF-671	Jim Cali
		PGS Sprinkler Piping	Everything in ready status	WMF-671	Jim Call
	2.06		Set to off	WMF-671	Jim Call
	2.07	Fuel Tank (7/8 full by gauge)	Tank will need to be filled by Ops.	WMF-671	Jim Call
	2.08	PGS Water Mist Storage Tank	Water Level @ 7' of 12' capacity	WMF-671	Jim Call
3	<u>Breath</u> 3.01	i <mark>ing Air System</mark> Breathing Air Trailer (gauge shows 100psi)	In Standby	West of WMF-671	Eugene Keating
4		Air System:			
	4.01	Plant Air System (gauge shows 60psi)	In Standby	West of WMF-671	Eugene Keating
5	Heatin 5.01	g (H&V)	Turned Off at turnover	WMF-671	Eugene Keating
		HMI Panel	Turned Off at turnover	WMF-671	Eugene Keating
6		iarm System:		· · · · · · · · · · · · · · · · · · ·	
	6.01	Fire Alarm System	Connected and reporting to CFA	WMF-671	Brent Laird
7		cal & Power	All Canada Canada de All Canada de Bank a rellina	144 P 274	27
	7.01	Panels	All Panels Energized. All Breakers in "on" position except for spares	WMF-671	Eugene Keating
	7.02	Radiant Heaters	All Heaters Set At Lowest Setting	WMF-671	Eugene Keating
8		ure - Floor (FFS)	All Construction Punch List Items Complete		
9	CCTV				
		Spare Camera	Turned over to Charlie Griffin	WMF-637	Charlie Griffin
	9.02	Spare Monitor	Turned over to Charlie Griffin	WMF-637	Charlie Griffin
10	4400-51400-5140-5140	Suppression System			
		Water Tank	Ops to fill tank with water	WMF-671	Eugene Keating
	10.02	Remote Controllers	Turned over to System Engineer	WMF-635	Eugene Keating
11		ure - RCS	All Construction Punch List Items Complete		
12	***************************************	ure - WES			
		Fire Extinguishers	installed, Ops needs to Bar Code	WMF-671	Jim Call
		Pallet Jacks (2)	Stored in WES (needs to be load tested)	WMF-671	Mike Dicken
	12.03	Operator Manual / Oper. Instruct./	Turn over to System Engineer	WMF-637	Dennis Conley
	A	Spare Parts Catalog		WMF-637	Dennis Conley
		Gas Bottle Racks	installed, Ready For use	WMF-671	Eugene Keating
****	12.05	Smear Counting Box	Will be turned over to System Engineer Scheduled to be delivered 5/13/03	At Fabricator	Eugene Keating
13		Generator / ATS			
		Fire Extinguisher (2-mounted on unit)	Installed, Ops needs to Bar Code	On Trailer	Jim Call
		Fuel Tank (gauge shows full)	Needs to be filled by Ops.	On Trailer	Eugene Keating
		Generator (meter shows 15 hrs)	In Manual Mode, Will not start unless set to auto	WMF-671	Mark Owen/Keating
	13.04	MIO	In Manual Mode, Will not start unless set to auto	West of WMF-671	Mark Owen/Keating

Turnover Summary Status

		Construction Turnover Config	guration Status		
#	Syster	m or Equipment	Turnover Status	Location	Responsible Party
14	Painti	πο	All Punch List Items Complete		Commence of the Commence of th
15	CO De	etection			
		CO Detection System	System on, Impairment to be placed by Jim Call	WMF-671	Eugene Keating
16	***************************************	oring and Controls	Turnover Status Listed by System		
17	PGS's				
		Gloves	Not Installed (Ops needs to install)	WMF-671	Paul Pinson
	17.02	Hoists	Ready for use, load tested and tagged	WMF-671	Paul Pinson
	17.03	Windows	Need to be Re-installed	IN Transit	Paul Pinson
18	Drum	Loadout Enclosures			**************************************
	18.01	Filters	Five filters need to be replaced (Delivery 5/13/03)	ON ORDER	Charlie Griffin
		Drum Lift Tables	All installed (Warranty Issue with 1 on PGS #3)	WMF-671	Charlie Griffin
	18.03	Tents	Complete and tested	WMF-671	Charlie Griffin
19	Emiss	ions Monitoring		****	
	19.01	Emissions Monitoring System	In Standby	WMF-671	Charlie Griffin
		Ashcroft Hand Held Calibrator	Turned over to Charlie Griffin	WMF-637	Charlie Griffin
20	Critica	lity Alarm System (CAS)			
		Criticality Alarm System	In Standby	WMF-671	Charlie Griffin
21	Fissile	Monitoring (FMM)			
	21.01	Fissile Monitoring System	In Standby	WMF-671	Paul Pinson
22	Drum.	Assay (NDA Facility)			***************************************
	22.01	Drum Assay Facility	Bidg. Leveled / Lights, Fixtures & HVAC all work	West of WMF-671	Scott Roesener
	22.02	Security Locks and keys	Turned over to Scott Roesener (one set)	WMF-637	Scott Roesener
23	Misc.	tems			
		Equipment Stands and Items			
	23.01	Overburden Cartridge	Staged West of WMF-671	West of WMF-671	Scott Smith
	23.02	Hydraulic Hammer Support	Staged in WMF-671	WMF-671	Scott Smith
	23.03	Drum Sizing Tray	Staged West of WMF-671	West of WMF-671	Scott Smith
	23.04	Drum Puncture Tool Stand	Staged West of WMF-671	West of WMF-671	Scott Smith
	23.05	Jaw Bucket Stand	Staged in WMF-671	WMF-671	Scott Smith
	23.06	15" Bucket Stand	Staged in WMF-671	WMF-671 ;	Scott Smith
	23.07	24" Bucket Stand	Staged in WMF-671	WMF-671	Scott Smith
	23.08	Tool Table	Installed	WMF-671	Scott Smith
	23.09	Tools For Tool Table	Turned over to System Engineer	WMF-671	Scott Smith
	23.10	Drum Puncture Tool	Turned over to System Engineer	West of WMF-671	Scott Smith
		Excavator Hose Mtc. Platform	Staged West of WMF-671	WMF-671	Scott Smith
		er Misc Items			
		TS Fall Arrestor	Turned over to Scott Smith	WMF-637	Scott Smith
		Body Harness For Fall Arrestor	Turned over to Scott Smith	WMF-637	Scott Smith
		Lockers	Installed	WMF-671	Scott Smith
	23.15	Probe Puller Caps	Staged West of WMF-671	West of WMF-671	Scott Smith
	III - Key		787		
		Keys to Excavator	Turned over to Mike Dicken	WMF-635	Mike Dicken
		Keys to Electrical Panels	Turned over to Mike Dicken	WMF-635	Mike Dicken
		Keys to ATS Switch	Turned over to Mike Dicken	WMF-635	Mike Dicken
	23.19	Keys to Diesel Fire Pump	Turned over to Mike Dicken	WMF-635	Mike Dicken
	23.20	Keys to WES exterior doors	Security Turned over to Mike Dicken	WMF-635	Mike Dicken
		Keys to Diesel Generator	Turned over to Mike Dicken	WMF-635	Mike Dicken

Turnover Summary Status

Appendix K

Inspection and Project Transfer Form 432.04 for Final Turnover

Appendix K

Inspection and Project Transfer Form 432.04 for Final Turnover

110GEM-19-0074

432.04 02/20/2003 Rev. 07

INSPECTION AND PROJECT TRANSFER

Page 1 of 5

Partial Project Number

PROJECT TITLE: OU 7-10 Glovebox Excavator Method Project

On this date an inspection was made of the subject project or portion thereof as described below:

Walkdowns for the site development work performed by Chung Associates, for the structural construction work performed by BBWI force account, and for the 23 systems and areas in the Mechanical/Electrical/Facility package of the Glovebox Excavator Method project performed by Arrington Construction Co. have taken place beginning June 2002. The results of these walkdowns are documented in the project deficiency status reports (PDSRs), which are contained in the project turnover

The following systems, equipment, and facilities are included within the scope of this transfer:

FIRE PROTECTION Water Mist RCS Dry Pipe WES Dry Pipe Manual Deluge Stationary Fire Pump Fire Alarm System

MECHANICAL Plant Air Breathing Air **Dust Suppression System** Heating and Vent. (CG portions) Heating and Vent. (SS, LSC portions) Excavator System (CG portions) Excavator System (SS portions) Packaging Glovebox Systems **Drum Loadout Enclosures**

ELECTRICAL/I&C Power, Switches, Light, Heat CCTV **Emissions Monitoring** CAS CO Detection Monitoring & Controls Fissile Material Monitoring Drum Assay

PAINTING AND FACILITY Painting and Facility Labelling Weather Enclosure Floor Structure Retrieval Confinement Structure

OTHER SPECIFIED CONTRACT WORK SCOPE (as defined in the turnover packages)

		*
as constructed by	Chung Associates/Arrington Constructon C	o/BBWI Force Account
,	(Name of Subcontractor or Dire	ct Hire)
	8388/13233/NA	20083/20511/NA
	(Subcontract No.)	(Funding No./Req. No.)

22-0361180 LMIT

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INSPECTION AND PROJECT TRANSFER

Page 2 of 5

The project (or portion of the project) was found by the Project Team (signatures as shown below) to be complete in accordance with the contractual documents except for such deficiencies specifically noted below. The project (or portion of the project) is ready for testing and start-up activities.

Deficiencies (attach list if necessary):

The results of these walkdowns are documented in the project deficiency status reports (PDSRs), which are contained in the project turnover binders.

Comments:

Inspection and project transfer are being performed in accordance with PLN-1159. Rev. 0, "Facility Turnover and Acceptance Pian for the Glovebox Excavator Method Project." This plan was prepared in accordance with MCP-2869, "Project Turnover and Acceptance."

PROJECT TEAM APPROVAL Ron Staymates/Darin Johnson Quality Engineer/Field Engineer Printrrype Name Mike Pratt Project Manager Print/Type Name John Arrington Field Superintendent (Sub)Contractor Print/Type Name Indent (Sub)Contrac **Dave Behrens** Construction Manager Representative Print/Type Name Manager Representative Art Clemons Safety Representative Print/Type Name Alan French Project Procurement Manager Print/Type Name & Job Title Other Signature

22-0361181 LMIT

INSPECTION AND PROJECT TRANSFER

Page 3 of 5

TRANSFERAPPROVAL

WORK COMPLETION

SUBCONTRACTOR/DIRECT HIRE:

1. Chung Work Scope: See attached Inspection and Project Transfer form 432.04 for the Chung scope of work, prepared at the completion of their work, in September 2002.)

2.	Arrington	Work	Scope
----	-----------	------	-------

I certify on behalf of Arrington Construction Co.

subject to the penalties provided under 18 U.S.C., Section 1001, that our personnel have accomplished the contract work and, to the best of my knowledge, the work was performed or accomplished in accordance with the contractual documents, including all approved changes.

John Arrington

Subcontractor Authorized Representative Print/Type Name

Subcontractor Authorized Representative Signature

Signature

I certify that the administration of the contract for the above named project (or portion of the project) is, to the best of my knowledge, complete to the extent required far this Project Transfer and/or close out **d** the contract.

Michael Drake/Ross Langseth

Prowrement Agent / Construction Manager Representative Procurement Agent / Con/ Signature

Michael Drake/Ross Langseth

4-29-63

Date

3. BBWI Force Account Work Scope

I certify on behalf of BBWI Direct Hire/Force Account that our personnel have accomplished the specified work scope, and, to the best of my knowledge, the work was performed in accordance with the specifications and/or orawings, including all approved changes.

Ross Langseth 4-29-03

Subcontract Technical Representative Printrype Name Signature

Subcontract Technical Representative Signature

INTERIM DISTRIBUTION

Signatories, Land/Facility Operations (Paul R. Snyder). and Project File (Melissa Voyles). For capital-funded projects include Property Accounting (Nancy K. Johnson) and Property Management (Carla Beckman)

22-0361182LMIT

PARTIAL PROJECT TRANSFER TO FACILITY MANAGER

Accounting, Property Management, and Financial Construction Coordinator.

I certify that our personnel have monitored the design, fabrication, and installation of the project (or portion of the project) and, to the best of my knowledge, the work has been completed in accordance with the plans and technicat specifications, including all approved changes. The project (or portion of **the** project) is hereby ready to be turned over to the Facility **Manager** for system operational testing and **other** activities in preparation **for** final project transfer.

_	Mike Pratt	Michael & Frat	May 5, 2003
	Project Manager rintrrype <i>Name</i>	Project Manager Signature	/ Date
The RWMC the project (or portion	n of the project) and for coord	acility Organization hereby accepts total responsibility inalion of remaining testing and activities required to	prepare far final project transfer.
	A SEE LONGIES E	-MAIL T.M. DIESEN TO DISTRIBUTION WA	18-671 SMANA
	5/12/03 07:15/4	AND 047-10 GEY CONSTRUCTION TURNS	ICR CONFIGURATION
N	「かかん ユタボラ s/d Mike Dicken	-MAIL T.M. DISSESS TO DISTRIBUTION WAS OUT-TO GEY CONSTRUCTION TURNS	5-13-03
	nageror Representative	Facility Manager or Representative Signature	Date
	** SE ATTACHES E	-MAIL TM DICKEN TO MIS PRATE DS BE	Heavs, 5/29/03 03:47 PM.
		Om Die **	5-29-03
FINAL PROJE	CT TRANSFER		
		ew to ensure project requirements have been met in a roject) is hereby ready to be turned over to the Facility	
	roject Manager rint/Type Name	Project Manager Signature	D∎te
The project (or portion	on of the project) is hereby ac	cepted for the Government	./ ./-
	T.M. DICKEN	Mal Jule	<u>7/28/03</u>
	nager or Representative rint/Type Name	Facility Manager or Representatwe Signature	l Date
	** See	EQUIPMENT STATILS SHAMPARY DATED 7/28/	3 @ 17ro4KC,
FINAL DISTRIBU	TION		

Signatories, plus DOE-IO Project Manager, Project File, and Land/Facility Operations. For capital-funded projects, include Property

22-0361 I83 LMIT

INSPECTION AND PROJECT TRANSFER

Page 5 of 5

INSTRUCTIONS

GENERAL

In accordance with MCP-2869, Project Turnover and Acceptance, this form documents the final inspection between the subcontractor/direct hire and the Facility Manager, and effects partial and final transfers of the project (or portion of the project) to the Facility Manager.

PAGE 1: INSPECTION

- 1. In general, a partial project transfer occurs when the contract Or a specific and definable portion of the project has been completed and is to be turned over to the Facility Manager for custody and maintenance. **Items** such as SO Testing, Life Safety **System** tie-ins, terminations, and final project documentation still remain to be accomplished.
- 2. The description needs to be detailed and clear on what is being transferred (e.g., reference drawing list, equipment list).
- 3. Deficiencies should only be allowed for partial transfers. If possible, include planned completion date for each deficiency.
- 4. Quality Engineer signs for quality significant projects, Field Engineer signs for Consumer Grade projects. or both sign for projects that are combined activitres.

PAGE 2: PARTIAL PROJECT TRANSFER APPROVAL

The second page (the "Work Completion" and "Partial Project Transfer to Facility Manage? sections) is to be filled out for partial
project transfer of the project (or portion of the project) from the subcontractor/direct hire to the Facility Manager after review by the
Project Turnover Review Committee demonstrates that the project (or portion of the project) is safe and ready for occupancy and SO
Testing activities.

PAGE 3: FINAL PROJECT TRANSFER APPROVAL

- 1. The third page is **to** be filled out after final testing (such as system operational testing), completion of all remaining project activities, and review by the Project Turnover Review Committee demonstrate that the project (or portion of the project) **is** ready for acceptance by the Facility **Manager/user** organization.
- 2. Use of this form does not constitute start-up approval of the project or portion thereof

22-0361184 LMIT

432.04 06/01/2000 Rev. **05**

INSPECTION AND PROJECT TRANSFER

Page 1 0f 3

TRANSFERTOPROJEC ⁻	Т	☐ Partial ☑ Final
	vebox Excavator Method Project-Site Develop	ment
On this date an inspection was made	de of the subject project or portion thereof as o	describe below:
Site Development Portion of the Glo	ovebox Excavator Project	
as constructed by	Chung & Ass	
	(Name of Subc	ontractor)
	8388 (Subcontract No.)	8388 (Funding No.∕Req. No.)
The project was found by the Proje	ect Team (signatures as shown below) to be cc	emplete in accordance with the contractual documents
	cally noted below. The project is ready for test	
Deficiencies(attach list if necessary See Attached Punchlist	у):	
See Attacheu Functiiist		
Comments:		
	PROJECT TEAM APPRO	OVAL
· -	PERT	GC6000 / /
Quality Engineer	For P S Quality	TriumArres 9/20/02 Engineer Date
Print/Type Name	Mai D. H	nature 1246pm
M, Ké Youth		Manager Date
Print/Type Name Row Kruger	Ron Know	nature Kun-Jung 8-19-02
Field Superint Adent (Sub)Com	dractor Field Superintend	ent (Sub)Contractor Date
Kess Langsel	H Pe	9-26-02
Construction Manager Represe Print/Type Name		ager Representative Date
HET CLEMONS	(hot Ch	mora 8-1-02
Safety Representative Print/Type Name		presentative Date nature
Other		ther Date
Print/Type Name & Job Titl		nature

22-0361 185 LMIT

INSPECTION AND PROJECT TRANSFER

432.04 06/01/2000 Rev. 05

TRANSFERAPPROVAL

CONSTRUCTION/CONTRACT COMPLETION

CONSTRUCTION SUBCONTRACTOR'		
I certify on behalf of Subject to the penalties provided under 18 k S. of my knowledge, the work was performed of acchanges.	ASS OC. C., Section 1001, that our personnel have a ccomplished in accordance with the contrac	iccomplished the contract work and, to the best ctual documents, including all approved
RON Kruger	Ran Krung	8-19-02
SubcontractorAbhorized Representalive Print/Type Name	Subcontractor Authorized Repre Signature	esentative Date
I certify that the administration of the contract for required for this Project Transfer and/or close at		
J. Mike BARNES ProcurementAgent Print/Type Name	Procurement Agent Signature	nes 9-26-02
INTERIM DISTRIBUTION	•	
'gnatories, Land/Facility Operations, and Proje Management.	ect File. For capital-funded projects include	Property Accounting and Property
TRANSFER TO FACILITY ORGAN	IIZATION	
certify that our personnel have monitored the cwork has been completed in accordance with the hereby accepted for the Government.		
H[A *	×(/^ *	
Project Manager Print/Type Name ਿ ★	Prietit Manager Signature	Date
The HA Custody of the project	Facility Organization hereby accepts total	responsibility for the maintenance and
1 Δ *	H/A*	<u>'</u>
Facility Organization Representative Printrrype Name	Facility Organization Represe Signature	antative Date
FINAL DISTRIBUTION		
Signatories, plus DO€-ID Project Manager, Proj Accounting, Property Management, and Financi	ject File, and Land/Facility Operations. For ial Construction Coordinator.	capital-funded projects, include Property
* See 432.0	04 form for total p	roject.
	·	22-0361186 LMIT

38 39 40

35

36

37

22-0361 187 LMIT

SUMMARY OF WORK 01005-1 of 3

Unless otherwise specified, references in these specifications or on the subcontract drawings

to other specifications, codes, standards or manuals which are part of these specifications. but

not included herein, shall be the latest edition, including any amendments and revisions, in

effect as of the date of this Specification.

Thomas M Dicken 05/12/2003 07:15 PM To: OU7-10 Ops Staff, OU7-10 Ops System Engineers, OU7-10 Ops. Foremen, RWMC SS, RWMC Records/Proc./Tech. Ed, OU7-10 ES&H Support, RWMC Training

cc: RWMC Staff, RWMC DOE

Fax to:

Subject: WMF-671 Status

As the OU7-10 Operations and Nuclear Facility Manager I have signed limited acceptance of the WMF-671 facility far Partial Turnover to conduct SO and Integrated Testing (effective 0730 hours, Tuesday, May 73) as noted below:

- Except for work within gloveboxes #1, 2 or 3, all work control and approval shall be authorized via the RWMC and GEM Project Approved Plan of the Week/Plan of the Day. Performance of FMM SO Testing is considered separate from work within the respective glovebox and will thus be controlled by Operations.
- a Ownership/responsibility far gloveboxes #1, 2 and 3 shalt remain with Construction until completion of cracked window replacement and satisfactory leak testing, as applicable. Thereafter, ownership/responsibility of each glovebox will be transferred to me.
 - Work within gloveboxes #1, 2 or 3, including cracked window replacement and satisfactory leak testing, shall be authorized by Construction and performed under the respective PWO.

Attached is **the** Construction Turnover Configuration Status as of 1733 hours today. The status of systems needs to be recorded in the respective **OOS**, Equipment Status, and Temporary Equipment Status logs and on status boards.

Through approximately 1600 hours Thursday, May 15, access to WMF-671 will continue to be via *the* Construction Trailer using the Construction entrance, Guard Shack and the green Construction badges. Likewise. the emergency notification means using the Construction air horn will remain in effect through this same period. Thereafter, access will be via the gate adjacent to the SDA **entrance.** In addition, it will be necessary that a Supervisor or designee be present in WMF-671 and that person have an RWMC radio in their possession, since there are no speakers inside the facility. whenever work is being performed. The RWMC SS will thus be required to transmit radio messages to WMF-671 as they currently do to the SDA.

Until system and component alignment of the fire protection systems, including independent verification, has been completed. a qualified Fire Watch will be stationed in WMF-671.



OU 7-10 GEM, Turnover Config Mgmt Lis

T.M. (Mike) Dicken
Pit-9 GEM Operations Manager/Nuclear Facility Manager
Office 526-1085 Cell 520-3237 Pager 5076 Home 523-6530

22-0361**188** LMTT

Thomas M Dicken 05/29/2003 03:47 PM

To: Michael B Pratt/PRATMB/CC01/INEEL/US@INEL, David S Behrens/DSB/CC01/INEEL/US@!NEL

cc: OU7-10 Ops Staff, OU7-IO Ops System Engineers, OU7-10 Ops.
Foremen, RWMC SS, RWMC Records/Proc./Tech. Ed, OU7-IO ES&H
Support, RWMC Training. RWMC Staff, RWMC DOE, David M
Bright/BRIGDM/CC01/INEEL/US@INEL

Fax to:

Subject: Partial Turnover of WMF-671 to Operations

This e-mail supersedes that written on 0511212003 at 07:15PM regarding my having accepted turnover of the WMF-671 facility at RWMC with the exception of gloveboxes #1, 2 and 3.

As the OU7-10 Operations and Nuclear Facility Manager I have reviewed the documentation showing replacement of the cracked sections of glass and satisfactory leak testing of gloveboxes #1, 2 or 3. Therefore, I have signed Partial Turnover acceptance of the WMF-671 facility to complete SO Testing and subsequently commence Integrated Testing as noted below:

All work control and approval shall be authorized via the RWMC and GEM Project Approved Plan
of the Week/Plan of the Day.

T.M. (Mike) Dicken
Pit-9 GEM Operations Manager/Nuclear Facility Manager
Office **526-1085** Cell 520-1237 Pager 5076 Home 523-6530

22-0361189 LMIT

		Construction Turnover Configurat	ion Status		
#	System	n or Equipment	Turnover Status	Location	Responsible Party
1'		Excavator (46.4 hours on meter)	Installed and ready foroperation (Cabis locked)	WMF-671	Scott Smith
1		Fuel Tank (filled to between 114 & 1/2)	Tank will need to be filled by Ops.	on Excavator	Scott Smith
1	1.03	NitrogenCartridge far Fire System	Cartridge has been removed, needs to be installed	tn Excavator	Jim Call/Scott Smith
1		Throger Carriage fair Fire Cystern	by Ops prior to start of operations	TI Exodvator	JIII Call/Scott Office
1	1.04	Spare Hydraulic Fluid	Stored in RWMC Warehouse	WMF-655	Scott Smith
		Hydraulic Oil Test Kit	Stored in RWMC Warehouse	WMF-655	Scott Smith
		Tires Removed From Excavator	Stored in Conex located at ConstructionTrailer area		Scott Smith
]	1.07	Outriggers removed from Excavator	Stored in Conex located at ConstructionTrailer area	CM Trailer Row	Scott Smith
1	1.08	Front Ramsremoved from Excavator	Stored in Conex located at Construction Trailer area	CMTrailer Row	Smtt Smith
l	1.09	Glass Removed From Cab	Stored in Conex located at Construction Trailer area	CM Trailer Row	Smtt Smith
		End Effectors:			
l	1.10	16" Bucket	Staged in WMF-671	WMF-671	Scott Smith
	1.11	24" Bucket	Staged in WMF-671	WMF-671	Scott Smith
	1.12	Hydraulic Hammer	Installed on Backhoe in WES	WMF-671	Scott Smith
	1.13	Jaw Bucket	Staged in WMF-671	WMF-671	Scott Smith
2		rotection (Water) Systems Fire Piping	All valves in WMF-750 are closed	WMF-671	Jim Call
ı		WES Sprinkler Piping	Everything in ready status	WMF-671	Jim Call
1		RCS Sprinkler Piping	Everything in ready status	WMF-571	Jim Call
l		RCS Deluge Piping	Everythingin ready status	WMF-671	Jim Call
l		PGS Sprinkler Piping	Everythingin ready status	WMF-671	Jim Call
l		Diesel Fire Pump (5 hrs on meter)	Set to off	WMF-671	Jim Call
	2.07	Fuel Tank (7/8 full by gauge)	Tank will need to be filled by Ops.	WMF-671	Jim Call
ł	2.08	PGS Water Mist Storage Tank	Water Level @ 7' of 12' capacity	WMF-671	Jim Call
3		ing Air System	-		
	3.01	Breathing Air Trailer (gauge shows 100psi)	In Standby	West of WMF-671	Eugene Keating
4		Air System: Plant Air System (gaugeshows 60psi)	In Standby	West of WMF-671	Eugene Keating
5		a (H&V)			
ĺ	5.01	PLC HMI Panel	Turned Off at turnover Turned Off at turnwer	WMF-671	Eugene Keating
	5.02	nivii railei	Turried Off at turriwer	WMF-671	Eugene Keating
6	Flre A	larm Svstem: Fire Alarm System	Connectedand reporting to CFA	WMF-671	Brent⊾aird
		•	Connected and reporting to Cr A	VVIVII -O7 I	Dientrant
7		ical& Power			
	7.01	Panels	All Panels Energized. All Breakers in "on" position	WMF-671	Eugene Keating
	7.00	Darlianti Instana	except for spares	1	
	7.02	RadiantHeaters	All Heaters Set At Lowest Setting	WMF-671	Eugene Keating
8		ure - Floor (FF\$)	All Construction Punch List Items Complete		
9	CCTV	0	T		
	9.01	Spare Camera	Turned over to Charlie Griffin	WMF-637	Charlie Griffin
	9.02	Spare Monitor	Turned over to Charlie Griffin	WMF-637	CharlieGriffin
10		uppression System			
		Water Tank	Ops to fill tank with water	WMF-671	Eugene Keating
	10.02	Remote Controllers	Turned over to System Engineer	WMF-635	EugeneKeating
1		ure - RCS	All Construction PunchList Items Complete		
12	Struct	ure - WES			
		Fire Extinguishers	Installed,Ops needs to Ear Code	WMF-671	Jim Call
		Pallet Jacks (2)	Stored in WES (needs to be load tested)	WMF-671	Mike Dicken
	12.03	Operator Manual/ Oper. Instruct./	Tum over to System Engineer	WMF-637	Dennis Conley
		Spare Parts Catalog	L (II) Decided	WMF-637	Dennis Conley
		Gas Bottle Racks	Installed, Ready For use	WMF-671	Eugene Keating
		Smear Counting Box	Will be turned aver to System Engineer Scheduled to be delivered 5/13/03	At Fabricator	Eugene Keating
3		Generator / ATS			
	13.01	Fire Extinguisher(2-mounted on unit)	Installed Ops needs to Bar Code	On Trailer	Jim Call
		FuelTank (gauge shows full)	Needs to be filled by Ops.	On Trailer	Eugene Keating
	33.03 13.04	Generator (meter shows 15 hrs)	In Manual Mode. Will not start unless set to auto In Manual Mode, Will not start unless set to auto	WMF-671	Mark Owen/Keating
1	13.04	AIO	in ivianualivioue, vviii not start uniess set to auto	West of WMF-671	Mark Owen/Keating

Turnover Summary Status

22-0361190LMIT

# System or Eq	uipment	Turnover Status	Location	Responsible Par
14 Painting		All Punch List Items Complete		
5 CO Detection		All I diditas tiems complete		
	.tectionSystem	System on, impairmentto be placed by Jim Call	WMF-671	Eugene Keating
6 Monitoring a	nd Controls	Turnover Status Listed by System		
7 PGS's 17.01 Gloves 17.02 Hoists 17.03 Window		Not Installed (Ops needs to install) Ready for use, load tested and tagged Need to be Re-installed	WMF-671 WMF-671 IN Transit	Paul Pinson Paul Pinson Paul Pinson
8 <u>Drum Loador</u> 18.01 Filters 18.02 Drum L 18.03 Tents	ut Enclosures ift Tables	Five filters need to be replaced (Delivery 5/13/03) All installed (Warranty issue with 1 on PGS#3) Complete and tested	ON ORDER WMF-671 WMF-671	Charlie Griffin Charlie Griffin Charlie Griffin
19.02 Ashcro	ons Monitoring System ft Hand Held Calibrator	In Slandby Turned aver t o Charlie Griffin	WMF-671 WMF-537	Charlie Griffin Charlie Griffin
	arm System <u>(CAS</u>) ity Alarm System	In Standby	WMF-671	Charlie Griffin
21 Fissile Monit 21.01 Fissile	oring (FMM) Monitoring System	In Standby	WMF-671	Paul Pinson
22.01 Drum A 22.02 Securit		Bidg. Leveled / Lights, Fixtures & HVAC all work Turned over to Statt. Roesener (one set)	West of WMF-671 WMF-637	Scott Roesener
23.01 Overbu 23.02 Hydrau 23.03 Drum S 23.04 Drum F 23.05 Jaw Bu 23.06 16" Bu	Puncture Tool Stand icket Stand	Staged West of WMF-671 Staged in WMF-671 Staged West of WMF-671 Staged West or WMF-671 Staged in WMF-671 Staged in WMF-671 Staged in WMF-671 Installed	West of WMF-671 WMF-671 West of WMF-671 WMF-671 WMF-671 WMF-671 WMF-671	Scott Smith Statt Smith

22-0361191 LMIT

Turnover Summary Status

As of the date of Final Turnover from Construction to Operations, July 28, 2003, the following summaries known Design or Construction problems in WMF-671 and WMF-750.

- **A.** Known Component or System Problems or Concerns:
 - 1. Stack **CAM** operation spurious alarms
 - a. Appears to be a loss of 4-20ma signals from CAM to data logger. System Engineering (Branter/Maughan) is still investigating potential causes. It is expected that the problem may be related to electrical **power** instability during power transfers from the normal to the standby bus.
 - 2. Area CAMs spurious alarms
 - **a.** To prevent equipment faults due to switching of electrical power from the normal bus to the standby **bus**, a **UPS** device needs to be installed on each CAM. Design Engineering (Hipp) has the action to buy 12 on-line/continuous power UPSs.
 - 3. RCS Overpressure Relief Valve operation occasional unexplained openings
 - a. Appears to be related to a few milliseconds of power loss when switching from normal to standby power; System Engineering (Branter/Maughan) investigation continues with Design Engineering support. The current UPS is a switching design type. Replacement with an on-line/continuous power UPS is the probable fix.
 - **4.** Primary Exhaust Fan Bearings noisy, **require** replacement (warranty)
 - a. Atlas in the process of replacing the bearings today
 - 5. Primary and backup fan housings installation of bearing inspection covers
 - a. RWMC Maintenance will perform the installation of inspection doors. The work request
 was submitted the week of July 21. This work is a design change requested by
 Operations.
 - 6. French cans means of tightening
 - a. The problem with not being able to tighten the can by hand appears to be related to the can's gasket material. System Engineering and Design Engineering (Grover/Carpenedo) are working with CRL to determine recommended path forward. Solution may involve replacing PVC gaskets with another material or "shaving" gasket material.
 - 7. #1 PGS **DDTC** repairs to door
 - The DDTC door was damaged during operations. Evidence of metal-to-metal galling was found.
 - b. Replacement **parts** were ordered about two weeks ago; delivery expected 8-10 weeks. In addition, need to send damaged door to CRL for their investigation.
 - 8. ATS operation reprogramming to prevent 7-day auto operation of standby generator
 - a. Reprogramming of the ATS software was completed on **Friday** 7/25. It **is** expected that the reprogramming fixed the problem. Monitoring will continue for evidence **of** any switch transfer during the night.
 - 9. Excavator hydraulic system changeout of lock check valves and adjustment to pump
 - a. **A** DCN to **be** issued on **7/31**. Modifications are to include replacement of lock check valves with units that have internal pressure relief and the addition of an electronic valve that causes the hydraulic **pump** to maintain a more constant pressure. Most likely will **be** awaiting parts from **CAT prior** to starting. **System** Engineering (Scott Smith) is coordinating. Modifications to **be** completed in mid-August. In **the** interim, **the** installed lack check valves have been bypassed.
 - 10. Rollup door on west side once open, fails **to** close if the sun **is** shining on the door's electric eye.
 - **a.** System Engineering continues to troubleshoot the condition. Removal of the electric eye feature may be required.

Prepared by T.M.Dicken

as of 7/28/2003

1700 hrs.

WMF-671 and WMF-750 Known Design or Construction Problems **at** the Time of Final Turnover from Construction **to** Operations **Page 2** of 2

- FMM software a design change requested by Operations requests modifications to eliminate end-of-shift closeout
 - a. Lent and Morgan to determine the impact on Fast Cruise
 - b. Design Engineering/R&D (Scates/Akers) to perform the modifications
- 12. Excavator shim stops evaluate accept as-is
 - a. Construction is **working** with Operations to perform an inspection plan to verify **that** the shims meet the criteria for preventing end effector damage to the **RCS** wall.
- 13. Fire Sprinkler Piping CPVC section of piping **needs** to be changed to galvanized steel
 - a. To be replaced with approved galvanized steel piping in accordance with NFPA 13.
 Design change has been issued. Construction working with 3D to perform the work on 73 1. Replacement of insulation to be performed by Construction.
- **14.** Emissions Monitoring **System** cabinet internal cooling unit is not operating properly.
 - a. RWMC Maintenance completed **PM**. If proper cooling cannot be achieved **a warrarty** claim is probable (Davies)
- 15. Asphalt paving between WMF-671 and the drum assay trailer Needed to preclude dropping drums during drum movements. To be installed the week of August 4 as a design change requested by Operations.
- 16. Dust Suppression System (DSS) Does not properly operate in each of its various modes
 - a. Warranty issues regarding reprogramming requirements to be worked by Intrepid on July
 30.
- 17. Standby **Diesel** Generator test results need to be provided
 - a. Design Engineering (Guillen) to get the manuals and test results into the Vendor Data System
- 18. Criticality Alarm System (CAS)
 - a. Per EDF-2285, because the system reads out in mrem/hr versus mrad/hr BPIL to do an energy response characterization. Design Engineering (Davies/Hipp) to coordinate.

1700 hrs.

- 19. Drum Assay Trailer limited cooling
 - **a. NDA** cannot **pass** QC requirements in the high temperature conditions within the equipment end of the trailer, System Engineering to evaluate possible remedies or determine if the problem is a warranty issue **for** Eberline.
- B. Systems Without any Known Problems or Concerns That Relate to Design or Construction:
 - 1. Breathing Air System
 - 2. Plant Air System
 - 3. Fire Alarm System
 - 4 Facility Floor Structure
 - 5. Closed Circuit Television System
 - 6 RCS Structure
 - 7. Painting
 - 8. CO Detection System
 - 9. Monitoring and Controls
 - 10. Drum Loadout Enclosures

Prepared by T.M. Dicken as of 7/28/2003

WMF-671 and WMF-750 Known Design or Construction Problems at the Time of Final Turnover from Construction to Operations Page 3 of 2

Corrective actions to resolve these known equipment problems or concerns will continue to be **worked by the** OU7-10 Project. Accordingly, the above equipment problems or concerns will be resolved by **the** combined efforts of Operations, System Engineering, RWMC Maintenance, Design Engineering, Construction and Project Management, **as** applicable. In assuming responsibility for **the** WMF-671 and WMF-750 facility, I do so with the above equipment known problems **or** concerns requiring resolution prior to authorization to commence waste **zone** material retrieval.

T.M. (Mike) Dicken

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Pit-9 GEM Operations Manager/Nuclear Facility Manager Office 526-1085 Cell 520-1237 Pager 5076 Home **523-6530**